

Title (en)
METHOD OF BENDING WORK PIECES

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EP 0340167 A3 19901024 (DE)

Application
EP 89810290 A 19890418

Priority
AT 104688 A 19880425

Abstract (en)
[origin: EP0340167A2] In the method for bending a work piece by a given bending angle, the work piece is initially bent by a somewhat larger angle than the given final bending angle, whereupon the stress on the initially bent work piece (14) is relieved by relieving the load on the bending punch (5). The amount of spring-back is then determined by measuring the effective bending angle following the first bending operation. The bottom plug (22) is then adjusted in such a way that the bending angle resulting from the following, second bending operation corresponds to the given final bending angle minus the amount of spring-back. After the release of the load on the work piece following the second bending operation, the work piece will spring back to such an extent that it has exactly the desired final bending angle. <IMAGE>

IPC 1-7
B21D 5/02

IPC 8 full level
B21D 5/02 (2006.01)

CPC (source: EP US)
B21D 5/0209 (2013.01 - EP US); **B21D 5/0236** (2013.01 - EP US)

Citation (search report)
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• [Y] FR 2179958 A1 19731123 - HAEMMERLE AG MASCHF [CH]
• [X] AT 381251 B 19860925 - HAEMMERLE AG [CH]

Cited by
CN104203445A; US9381558B2; WO2013116888A1

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BE CH DE ES FR GB IT LI LU NL SE

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EP 0340167 A2 19891102; EP 0340167 A3 19901024; AT 390575 B 19900525; AT A104688 A 19891115; JP 2694617 B2 19971224; JP H01313112 A 19891218; US 4966029 A 19901030

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